

The meeting of the South Dakota Nutrient Research and Education Council was called to order by Chairman Ryan Wolf at 10:00 AM, December 7, 2017 at the SDSU Cow-Calf Education & Research Facility Classroom on the campus at South Dakota State University.

In attendance were council members Kevin Bachmeier, Bill Gibbons, Richard Jenny, Bryan Jorgensen, Jim Loken, Dana Loseke, Al Miron, Colin Nachtigal, Ryan Schuchhardt, Richard Vasgaard, Paul Wegleitner, Ryan Wolf, and Tom Wolles. Also in attendance were Kathy Zander, Executive Director, South Dakota Agri-Business Association; Justin Werkmeister, Director of Finance and Accountability, SDSU; Lora Berg, Director of Marketing and Communications, SDSU; and Missy Vande Weerd, Assistant to the Director of the SD Agricultural Experiment Station at SDSU.

Secretary Colin Nachtigal presented the notes from the June 2017 meeting. The Council approved the notes.

Jim Loken and Justin Werkmeister gave a financial update. After administration and awards expenses, the balance available is \$313,269.73. It was estimated an additional \$1 million would come into the research account, and so amount available for the 2018 funding cycle would be \$1,331,269.73. The council approved the financial report.

The council then discussed the terms and conditions for acceptance of NREC research funding, including the request for proposals (RFP's), funding cycles, and progress reports. Also briefly discussed was creating a website.

At this time, presentations were given by researchers. Of the eight presentations, the council approved six to proceed, and awarded \$387,000. The projects approved are as follows:

1. In-season N application in corn to improve fertilizer efficiency in eastern South Dakota (Peter Kovacs) \$120,000;
2. The impact of soil test level differences on crop response, P leaching, and P runoff under long-term no-till management in South Dakota (Jose Guzman) \$63,000;
3. Fertilization management to reduce potential yield declines following no-till adoption in semi-arid South Dakota (Christopher Graham) \$61,000;
4. Evaluating Solar-Powered N₂-Fixing Cyanobacteria in Topsoils of South Dakota for Soil Fertility and Practical Application (Ruanbao Zhou) \$54,000;
5. Sulfur and Nitrogen Dynamics For Rye Raised as a Cover Crop (Peter Sexton) \$48,500
6. Impacts of Manure and Inorganic Fertilizer on Soil Fertility, Water Quality, and Crop Yield in South Dakota (Sandeep Kumar) \$40,500.

Project not approved were as follows:

1. Reducing Erosion and Increasing Nutrient Retention by Integrating Cover Crops and Manure After Silage Harvest (Stephanie Bruggeman);
2. Low Rates of Starter Fertilizer to Improve Cover Crop Growth and its Impact on Crop Nutrient Cycling on South Dakota Cropland (David Karki).

The council resumed regular business and discussed the proposal process. The council would like to have feedback from outside reviewers sent to the researchers before they make



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presentations to the council. Also, in order to provide direction for future research, a committee of Jim Loken, Colin Nachtigal and Richard Jenny will work on defining what the council deems as priorities. At this time the council determined that the RFP's should be sent to the SD Board of Regents schools, Mitchell Technical Institute, Lake Area Technical Institute, Augustana, other private colleges in South Dakota, and other universities in the north central and western United States. And while other states will be invited to research, the research must be done in South Dakota. Researchers will be encouraged to collaborate with South Dakota researchers.

The next meeting was not set.

The meeting adjourned at 5:00 pm.

Submitted by:



Ryan Wolf, Chairman